Nicholas Yim

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EDUCATION

BS (Double Major): Computer Science / Electrical and Computer Engineering May 2025
RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY *New Brunswick, NJ*

- **GPA: 3.856** | Dean's List all semesters | Eta Kappa Nu (HKN) Honor Society
- **Relevant Coursework**: Software Engineering, Software Methodology, Design & Analysis of Algorithms, Data Structures, Computer Arch. & Assembly Lang., Info and Data Mgmt, Linear Systems & Signals, Electronic Devices

EXPERIENCE

Software Engineering Fellow Jul. 2024 – Present
HEADSTARTER AI *Remote*

- Build 5+ AI apps utilizing Next.js, React.js, OpenAI API, Stripe API, RAG, AWS, culminating in a final project aiming to ship to 1000+ users
- Develop projects through full SDLC, leading 3 other fellows using MVC design patterns
- Coached by Google, Amazon, and Bloomberg engineers on Agile, CI/CD, Git, and microservice patterns

Fulfillment Technology Intern Jun. 2024 – Aug. 2024
HELLOFRESH *Newark, NJ*

- Refactored a complex SQL stored procedure into a Python script, increasing memory/execution efficiency by 90% and facilitating quicker financial reviews
- Deployed development updates, improving workflow productivity across 10+ distribution centers in North America
- Addressed critical production issues on server-side via SQL queries and HighJump/Koerber WMS, leading to the effective management of 300,000+ inventory items per day
- Wrote design documentation for new features, providing 60+ team analysts/developers with essential guidelines

Data Science Extern May 2023 – Aug. 2023
ECPAT (via RUTGERS MBS EXTERNSHIP EXCHANGE) *NJ*

- Built mapping program via Python's Pandas, GeoPandas, and Matplotlib libraries to analyze crime in Chicago
- Cleaned/organized 1000s of lines of crime data using Python and CSV files, enhancing analysis accuracy
- Generated visual representations of trafficking and related crimes on Tableau, highlighting trends and hotspots

PROJECTS / CERTIFICATIONS

Certifications:

- AWS Certified Cloud Practitioner

InShort | *Next.js, Python, Pinecone, OpenAI, LangChain, Beautiful Soup* Jul. 2024 – Present

- Developed a personalized news application, providing insights/analyses of current events
- Wrote an automatic Python script to scrape over 125 million articles on the GDELT database
- Employed a RAG pipeline via Pinecone vectors to train the OpenAI model
- Gathered 35+ users on a waitlist in less than 1 day

Gym Haven | *Node.js, JavaScript, React.js, MongoDB* Jan. 2024 – May 2024

- Created a subscription-based e-commerce solution for fitness equipment
- Managed a 12-member team, delegating individual assignments and organizing weekly meetings
- Incorporated OAuth Authentication for user registration/login, Stripe API for payment processing, Web3Forms and OpenAI APIs for customer service, and EasyPost API to mimic shipping
- Composed detailed reports outlining data collections, application structure, and 40+ REST API endpoints

HackRU (Winner) | *Python, Streamlit, AWS EC2* Feb. 2023

- Achieved first place in health track out of 170 competitors
- Developed a web application in Python utilizing Streamlit open-source app framework to calculate and display live crowd levels at on-campus fitness centers based on user-input
- Deployed the website on a Linux server via an AWS EC2 instance

TECHNICAL SKILLS

Languages: Java, JavaScript, Python, SQL, MATLAB, XML, FXML, HTML/CSS, Swift/SwiftUI, C, C++
Frameworks: React.js, Node.js, Jasmine, JUnit, Bootstrap
Tools/Technologies: Git, VS Code, IntelliJ, AWS, MongoDB, Pinecone, Linux, WMS, Firebase, RISC-V, Tableau